|| Sri Gangamma Krupe ||

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Bharath : 98459 93652
Kavitha : 9964702826

# SAMRUDHI GROUND WATER CONSULTANT

J P Park, Muthyala Nagar, Bangalore - 560 054

## REPORT ON GROUND WATER INVESTIGATION

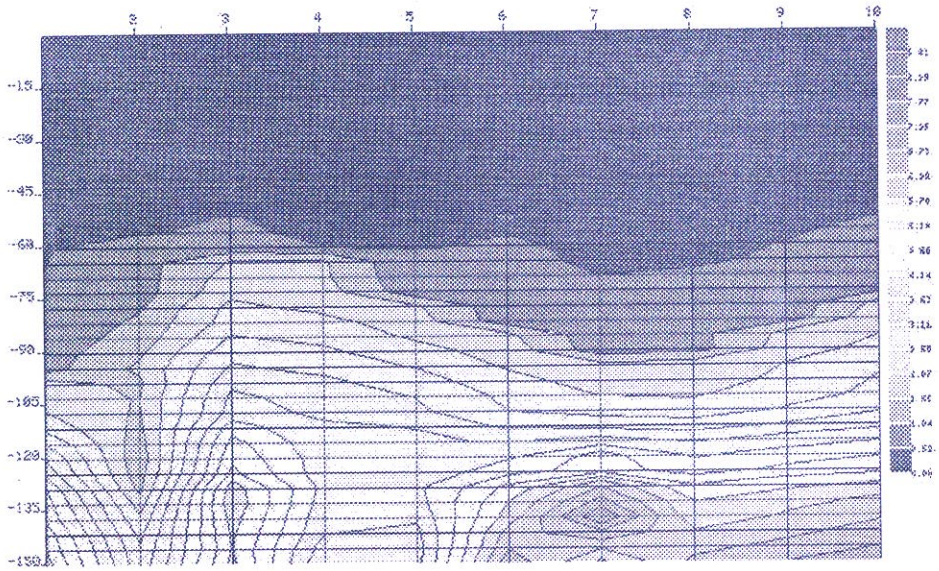
11/12/19

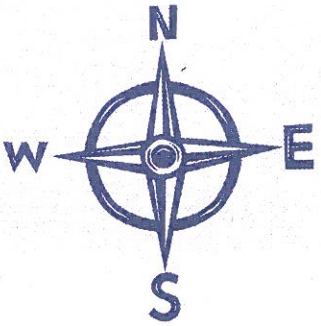
Name : AEE Vidyaranyapura Sub-div

Address: Ward No 11

Location: Singapura Post near Topography Black & white

Soil Type : Gravati Site Rock Type: Hard rock






## RECOMMENDATIONS

Dia of Bore well Bit : 6½" Water Level :

Depth Recommended : 800 - 900 FEET Yield : 320° 580° 810

Casing Pipe Required : 70 - 80 FEET Aquifers : 2½" - 3" water

PVC Outer Casing if Required: YES Point Location : 1

Remarks: —

Rain Water Harvesting Compulsory

Note : The survey was carried out by this divining / Geophysical method of Surveying is with our good Knowledge and experience, However no guarantee of Water will be given

Mr. Bharath Raj

**BORE WELL COMPLETION REPORT**

# SHIVABHAGYA AMMAN BOREWELLS

Mobile Number : 9731170031,9740717373

No 580, Kuvempunagara, Kengal Hanumanthaiah Road , Jalahalli East, Banglore-560014
E-mail:sivabhagyaammamborewell@gmail.com

No Date

1. Customer's Name And Address : AEE Vidyaranyapura Subdiv Ward-11
   With Telephone No
2. Well Location : Singapura park near
3. Total Well Depth Drilled In Ft : 1020 ft
4. Casing Erected In Ft : 110 ft
5. Water Struck At The Depth Of : 810 ft
6. Total Yield ( Measuring Method "V" Notch : 2½" / Inches On "V" Notch
7. Formation Of Soil / Well Water Condition : Boulders/Silt/Loose Soil/Clear Clear
8. At The Depth Of :
9. Recommended To Use Jet Pump / Air Compressor / Submersible/ Hand Pump

The Borewell Was Drilled In Accordance With The Company Terms And Conditions And Handed Over To Customer In Good/ Satisfied/Party Agreed Conditions

Once The Well Handed Over To Party, Company Is No Way Responsible For Future Developments If Anything In The Well Or What So Ever

Party's signature

I, owner of the Well / (Authorized signatory) fully understood the terms and conditions and the well completion report I also fully understood the quality of water from the well duly depend upon the nature / formation of ground water and the drilling agency no way responsible for future occurrence / changes in the bore with full satisfaction I hereby endorse my signature

For SIVABAGYA AMMAN BOREWELL
FOR: SHIVABHAGYA AMMAN BOREWELLS

M. Soorappa
Proprietor
Manager / proprietor

Party's signature

**TAX INVOICE**

(See Rule 46 of the Central Goods & serfices Tax Rules, 2017)

# Landis+Gyr Limited

# ಲ್ಯಾಂಡಿಸ್+ಗೇರ್ ಲಿಮಿಟೆಡ್


**R.O. Address :**
No. 503, 1st Floor, 3rd Main,
50 Feet Road, Hanumanthnagar,
BENGALURU - 560050.
Ph.: 080-26678515

**Branch Office Address :**
O/o AEE (C, O&M), N-4 Sub-Division,
BESCOM, Peenya 2nd Stage,
BENGALURU - 560058.


Customer Name AEE BBMP

Address 6th Cross
Kuvempunagara
Bangalore

GSTIN :

BILL No. **PNY/18/** 05631

DATE : 05/11/18 TIME : 5.06 AM/PM

**GSTIN : 29AAACV9922B1ZA**

| Sl. No. | Description of Goods / Services | Quantity (Nos.) | Rate per PC Rs. | Value Amount Rs. P. |
|---|---|---|---|---|
| | HSN Code : 90283010<br>Single / Three Phase Static Energy Meter<br>Model : E 150 / E 250, 5-30 Amps<br><br>Serial Nos. 3 phase<br>(764750) | 01 | 1466=00 | 1466=00 |

BESCOM DVN : C-9

W.O. No. A-15978 Date 05/11/18

Total Invoice Value (In Words) : one thousand seven hundred thirty only

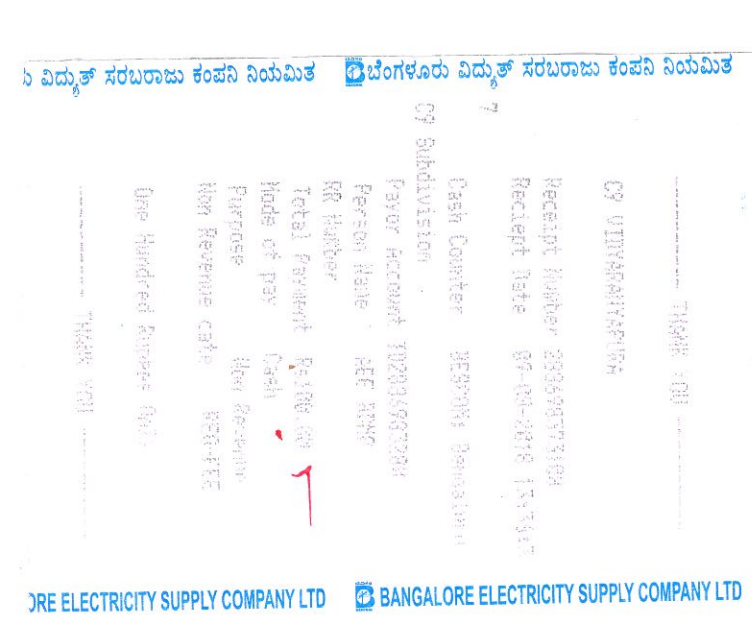
| | |
|---|---|
| CGST @ 9% | 132=00 |
| SGST @ 9% | 132=00 |
| **GRAND TOTAL** | 1730=00 |

E.&O.E.

1st Copy Original : White
2nd Copy Duplicate : Pink
3rd Copy Triplicate : Yellow
4th Copy Extra : Blue

For **Landis+Gyr Limited**

Signature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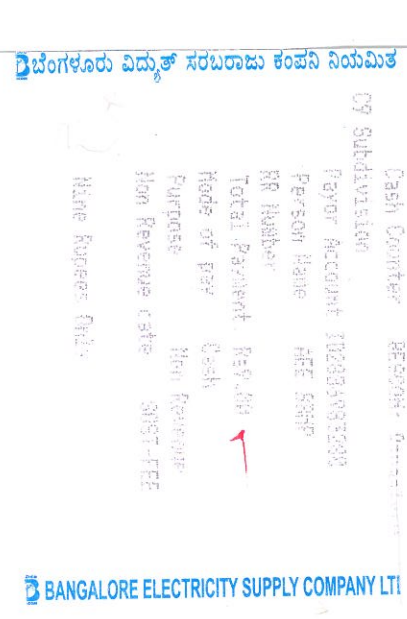
BANGALORE ELECTRICITY SUPPLY COMPANY LTD
CO UTTARAHALLI
Receipt Number 2000000000
Receipt Date 05-08-2018 15:56:15
Cash Counter BESCOM1 Bangalore
Payor Account 1020000000
Payor Name ARE ENAP
RR Number
Total Payment Rs.0.00
Mode of Pay Cash
Purpose Non Revenue Cash
Non Revenue Amt-FEE
Rupees One Hundred Rupees Only
THANK YOU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Rupees One Hundred Rupees Only
THANK YOU

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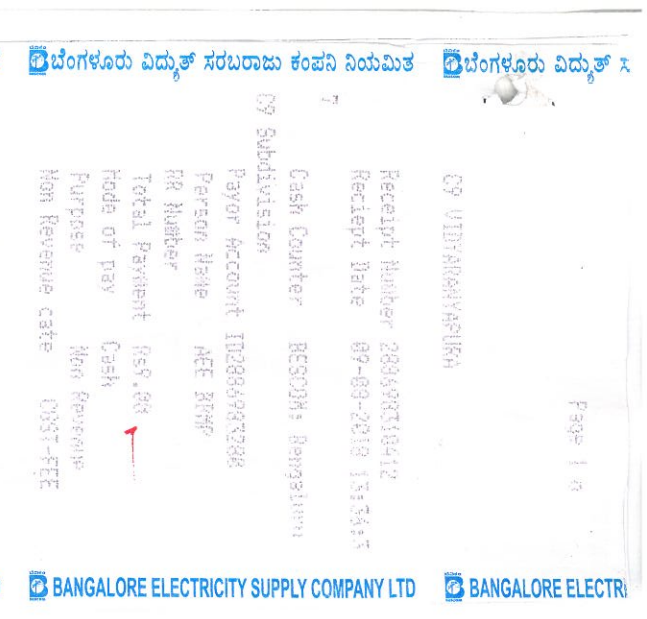
Non Revenue Amt-FEE
Rupees One Hundred Rupees Only
THANK YOU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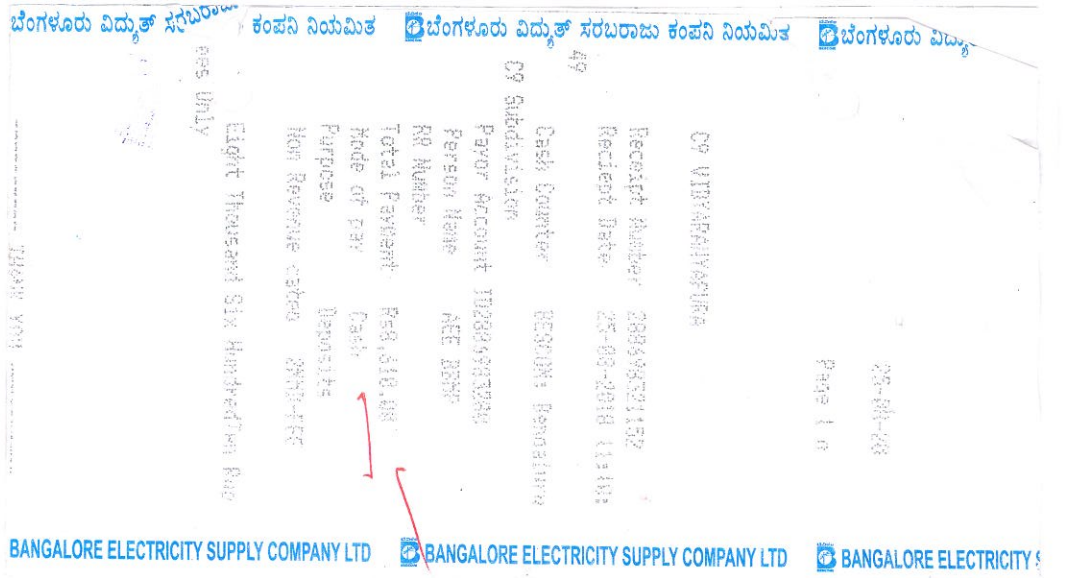
Total Payment Rs.0.00
Mode of Pay Cash
Purpose Non Revenue Cash
Non Revenue Amt-FEE
Rupees One Hundred Rupees Only
THANK YOU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Payor Name ARE ENAP
RR Number
Total Payment Rs.0.00
Mode of Pay Cash
Purpose Non Revenue Cash
Non Revenue Amt-FEE
Rupees Eight Thousand Six Hundred Only
THANK YOU

### Don'ts

- Don't use oil or coolant or distilled water for motor filling. This will affect the motor life.
- Don't perform frequent Megger tests on the winding. This will weaken the winding insulation.
- Don't use oversized backup fuse wires. This will damage the motor winding in case of Starter failures / short circuiting.
- Don't remove inbuilt Non-Return Valve which will damage the pump parts.
- Don't operate the pump set with very low or intermittent discharge. In such cases throttle the discharge with a gate valve to avoid dry running.
- Don't test the pump set outside the bore under dry run conditions. This may damage oil seal.

## SURFACE PUMP SET (MONOBLOC, SELF-PRIMING AND MINI PUMPS)

### Do's

- Place the pump on level ground / floor with proper foundation bolts.
- Install the pump in a dry place free from dust and moisture.
- Position the pump within specified / recommended maximum suction lift.
- Provide a priming arrangement in the delivery line for filling water.
- Use a proper strainer to avoid entry of foreign particles into the pump.
- A good quality foot valve must be provided in the suction line.
- Position the suction inlet (strainer / foot valve) at least 1 foot above the bottom of the sump to avoid sucking of deposited silt.
- Ensure that the horizontal portion of the suction line does not slope upwards away from the pump, to prevent air locks being created.
- Ensure sufficient submergence of suction inlet by at least 3 feet.
- Ensure that the casing contains water before starting if the pump has been idle for a long time.
- Check the suction line periodically for entry of foreign particles and clear any blockages in the strainer / foot valve.
- Protect the pump set from water splashing on it.
- Ensure that the leakage through the stuffing box (packing rope type) is limited to about 15 to 30 drops / minutes.
- Replace the mechanical seal in case of excessive water leakage through it.

### Don'ts

- Don't operate the pump set with very low or intermittent discharge and in such cases throttle the discharge with a gate valve to avoid dry running.
- Don't run the pump dry to avoid damage to the parts, especially the seal / packing ropes.
- Don't allow the pump to run with vibrations as this may damage the mechanical seal.
- Don't cover the motor with an air tight sheet or a metal cover, as this will not facilitate proper cooling resulting in motor overheat or burnouts.
- Don't install the pump in an inclined position as it could result in air locks being created.
- Don't lay excessive bends in the pipe network, especially in the suction line.

"Thank you for choosing our product. We are proud to support Child Health, Water for village communities and Grow trees"

Taro

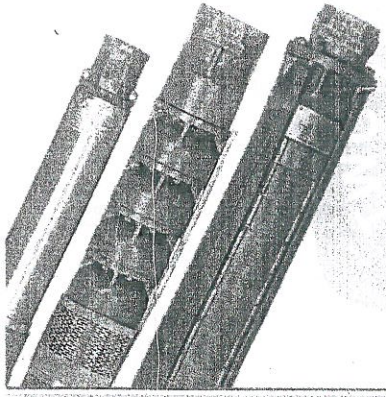
# TEXMO INDUSTRIES

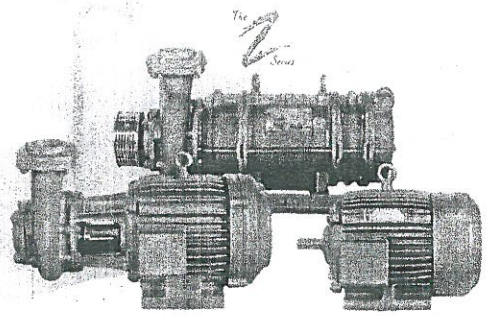
Since 1956

Taro

SNO64137063677

TRS 4025 SI + 5093 X





## WARRANTY

MTP Road, G.N. Mills Post, Coimbatore - 641 029 | Phone : 0422 - 6610360 | Customer Care : 0422 - 6610394 | E-mail : customercell@texmo.net

**TEXMO INDUSTRIES** offers a conditional free repair service for the pump set purchased through Texmo Industries and its authorized dealers subject to following terms and conditions.

1. Warranty shall be entertained only by the dealer who originally sold the product, **Original purchase bill should accompany the pump set at the time of service** failing which the free service offer shall not be applicable.
2. **The number of free service is limited to two within the warranty period of two years. In case two free services have already been claimed before the completion of warranty period, the free service offer ceases to exist.**
3. The pump set should have been installed by Texmo Industries authorized dealer or skilled mechanics only. The pump set should have been installed, operated and maintained in accordance to Texmo Industries product specific installation and operation manual.
4. The free service offer can be availed only at Texmo Industries authorized service outlets and is not applicable for any services done by unauthorized service personnel.
5. The scope of warranty shall extend only to repairing or replacing of defective parts free of cost. The decision as to whether a part should be repaired or replaced is at the sole discretion of Texmo Industries.
6. In case of replacement of part/parts, the defective part/parts shall become property of Texmo Industries.
7. Any expenses incurred in connection with deputing service personnel and technicians including conveyance and other incidentals are to be borne by Customer.
8. All disputes arising out of this warranty shall be referred to Courts having jurisdiction in Coimbatore and no claim shall be made against the company outside Coimbatore notwithstanding that the pump set/motor may have been purchased anywhere in India.

## WARRANTY SHALL NOT APPLY FOR THE BELOW MENTIONED CONDITIONS :

1. The warranty shall not cover any cost or charges incurred in the removal, installation or reinstallation of pump set in the field.
2. This is not an onsite warranty; the defective pump set has to be brought to the Authorized dealer or Authorized service center. All transportation/freight charges incurred in forwarding and delivering the pump sets to the authorized service locations shall be borne by the customer.
3. **The warranty shall not cover worn out pump components (casing, impeller, yoke, and cover dome) in monoblocs, self priming pumps and open well submersible pumps.**
4. **Damages resulting from adverse field conditions like abnormal sand, poor water quality, etc. will not be considered for warranty in borewell submersible pump.**
5. **The warranty is not applicable for bore well submersible pump components that wear out due to dry running without water in bore well.**
6. **If a motor fails or is damaged due to entry of mud/sand into the motor, free of cost service becomes void.**
7. The warranty does not cover consequential damage/defects resulting from improper selection/improper usage of the pump set.
8. The warranty does not cover failure of electrical components including burning of electrical wires and capacitors.
9. Entry of water from external sources (river or well or by rainwater or some other source) into surface monobloc motor leading to winding failure/burn and/or bearing failure will result in warranty becoming void.
10. Burning of coil and/or any internal damages incurred in submersible motor due to improper filling of cooling water into the motor is not covered under this warranty.
11. Further, the warranty is not applicable for the following operating conditions:
    - Three phase pump sets running in two phase power supply with capacitors.
    - Single phasing due to poor service line/starter issues.
    - Improper relay setting in starter and/or using of under sized wire and cables.
    - Operating the motor beyond recommended voltage band.
    - Serial number is tampered and not identifiable in pump set.
    - Operating high head pump at low head conditions resulting in overloading of motor.
    - Operating bare motor in overload condition.
    - Running of submersible pump set without strainer and Non return valve (NRV).
    - Improper installation of Monobloc pumps in series operation (kept adjoining each other)
12. Texmo industries will not be liable for any consequential damages, losses or expenses arising out of or in the course of fire, accident installation, willful damage, transit damage, normal wear and tear, and any other conditions of forced nature,
13. In the event that pump set is struck by any natural calamity this warranty stands null and void.
14. This warranty does not extend to any product other than Texmo industries pump set whether such products are supplied as accessories of the pump set or not.
15. The company will have no responsibility whatsoever for any indirect or consequential damage or loss.





## CHARGEABLE ITEMS DURING WARRANTY SERVICE

1. Fasteners (nut, bolt, stud, screw, etc.)
2. Cable, cable guard, and strainer
3. Rubber materials (Oil seal, bush, seal rings, O rings, etc.)
4. Gaskets (Paper and rubber)
5. Plastic items (Fan, terminal board, impeller and diffuser)
6. Sand guard and coupling.
7. Pump sleeve and bush items due to normal wear and tear,
8. Capacitors and electrical indicative meters.
9. Damage / missing parts during transport of service set.
10. Based on the specified product complaint, only those parts shall be replaced.
11. Painting of pump sets.
12. Changing of oil (compressor and submersible sewage pumps).

# MAINTENANCE & OPERATING PROCEDURE

## GENERAL MAINTENANCE TIPS

- Provide earthing through the screws provided on the motor body.
- Use correct size of cable and suitable correctly rated relay range. Prefer next higher size of Cable for low voltage conditions
- Set the relay at 1 to 1.2 times the full load current of 3 phase DOL and single phase motor and 0.7 times the full load of Star delta motors
- Operate the pump set for at least five minutes a day to avoid pump jamming.
- Allow at least 5 minutes between consecutive starts to avoid any jerk to the pump.
- Use recommended size of pipes. Usage of smaller sized pipes will reduce the water output considerably. Avoid oversized pipes.
- Use bends, instead of elbows, in the pipeline to minimize losses.
- Service the pump periodically depending upon the environment and load conditions (particularly, checking the mechanical seal and greasing the bearings).
- Don't run the pump at voltages beyond the recommended range.
- Don't operate the pump with the delivery valve fully shut.
- Provide a single phase preventer to avoid the coil getting burnt due to phase imbalances (3 phases).

## SUBMERSIBLE PUMP-SETS (OPEN WELL / BORE WELL PUMPS)

### Do's

- Ensure that the motor is filled with pure drinking water without air getting entrapped inside.
- Ensure the motor insulation resistance between phases and earth is above 20 M ohms.
- Ensure free rotation of pump and motor shafts and vertical plays before and after coupling.
- Erect the set with at least 3 m bottom clearance to avoid overheating or pump jamming.
- Erect the pump set 3-4 meters below maximum draw down level to avoid dry running
- Provide single phase preventer to avoid coil burning because of single phasing in 3 phase motor.
- Provide a dry run preventer to protect the pump components from dry running.
- The pump and motor taken out for service should be kept immersed in water to avoid corrosion.
- Refill the water in the motor once a year.